JC330-3AC/JC330-3DC

LED LIGHTING

FLOOR BRICK

USER'S MANUAL

This product of pressure sensitive lighting brick resolves independent and centralized control difficulties of light brightness, sound control and display rate adjustment. The product is controlled by DMX signal, and it provides a perfect solution for construction engineers on lighting application. The product applies on music square and city lighting project popularly, and also in bars, halls, pedestrian street, park, disco stage and show room etc. that requires centralized control on sound and light.

Read all the instructions before using this product of JC330-3.

This product has been patented, and unauthorized reproduction will be prosecuted.

Patent #: ZL200720050043.6;ZL200820045448.5;
ZL200820045447.0;ZL200810027008.1;ZL200830044061.3

Two types of lighting bricks with AC/DC voltages: JC330-3AC and JC330-3DC

JC330-3AC

Advantages: AC input, install easily, application in bars and show rooms that monitored by person

Shortcomings: must shut off power supply immediately if glass is broken or such accidents happen.

JC330-3 DC

Advantages: safe, use in pedestrian street, pool, square etc. that requires no monitor

Shortcomings: installation is complicated, and not cost-effective.

● Specifications and Important Safety Instructions

This product uses high-strength tempered glass, aluminum frame, ABS housing and flameproof PCB as basic materials. It is strong and sustainable, waterproof and dustproof.

Certificates: passed CE.FCC.RoHS.IP67 test

1. JC330-3AC power supply AC100-240V
2. JC330-3DC power supply DC24V (compliant with UL certificate)
3. waterproof grade: IP67
4. one single brick bears pressure of 300KG

5. each brick weight: 4.5KG.

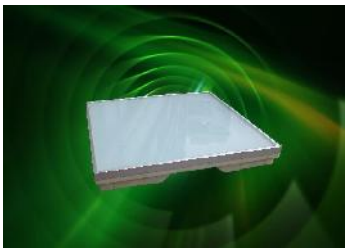
6. each brick dimension: 330×330×42MM

7. run program off-line when files are downloaded into controller or on-line live control

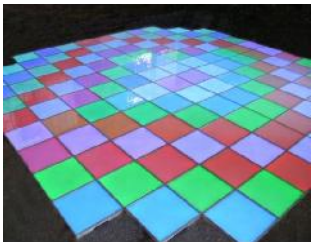
8. CAUTION: when use low voltage brick, please ensure connect positive and negative power cable correctly, or the brick may be damaged!

● Appearance

1、one single JC330-3



2、multiply connection of JC330-3's



● Optional Accessories:

JC-3controller

Sucker

Aluminum frame

Sound controller

RJ45 to JC-3converter

1M extension cable

Power controller

● Standard Accessories:

User's manual

DC power cable

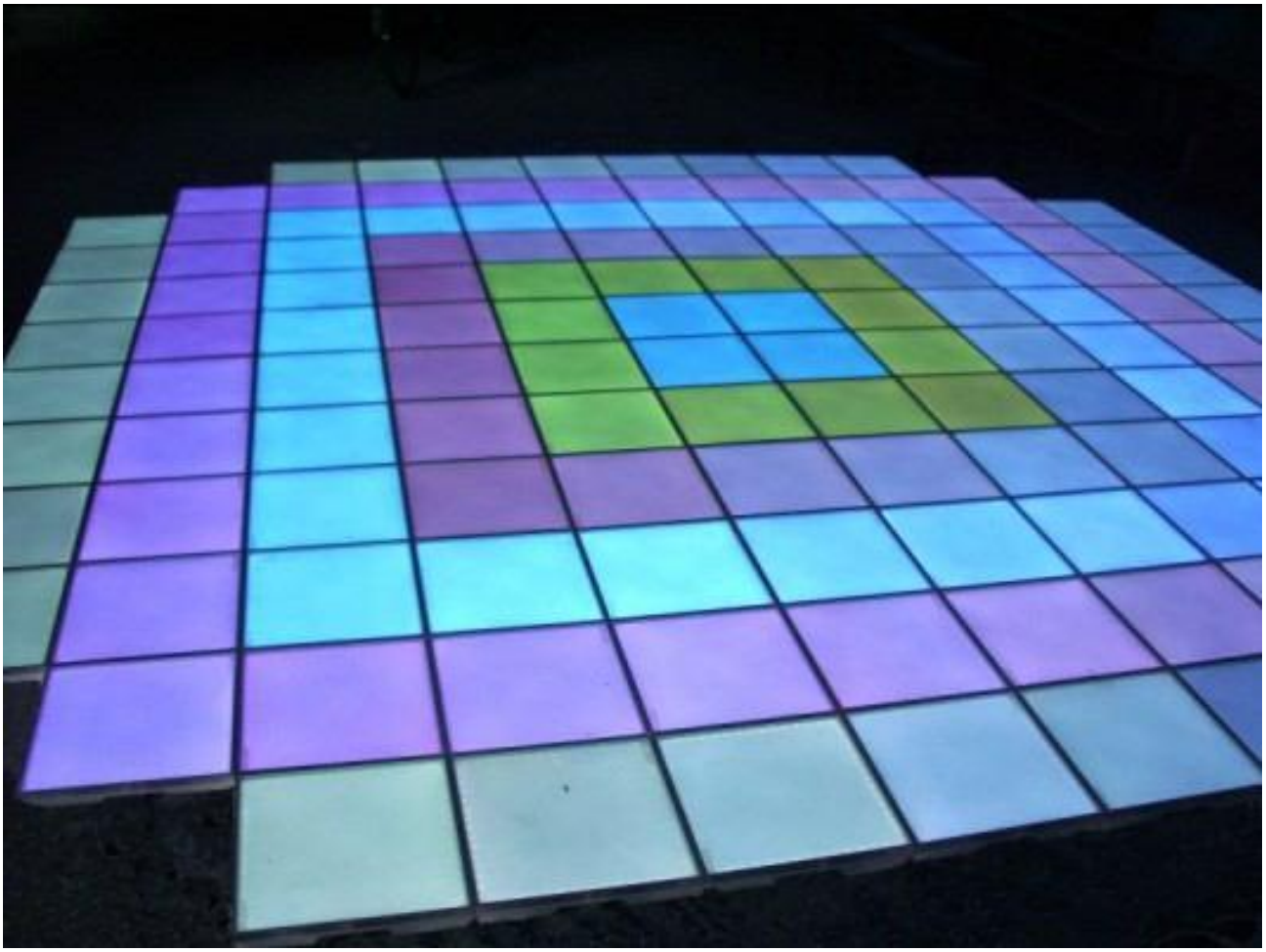
AC power cable

Installation plate

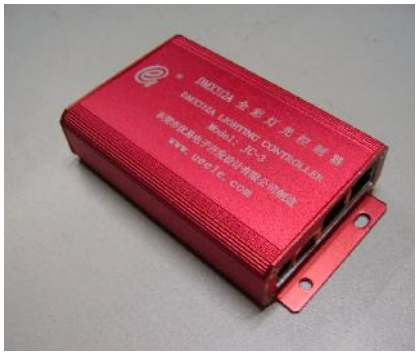
Waterproof terminal

JC330-3 Main Features

1. use UE JC-3 DMX controller or other standard DMX controller
2. high and accurate pressure sense without impacting connected bricks.
3. use JC-3 controller with multiply programs, display rate is adjustable
4. one JC-3 controller can control as many as 200 or more lighting dance bricks.
5. one single dance brick can operate separately, rainbow full color change; or use JC-3 to set JC330-3 display color and pressure sensitive color.
6. DMX512A signal input, setup address for each brick automatically; exchange address without impacting display effect.
7. waterproof design, IP67 grade, super strong product with selectable aluminum frame
8. thin housing design, total thickness is 42mm, portable and easy to install
9. set interaction effect at your will



- **Main features of JC-3 main controller**



USB connection controller (see JC-3 user's manual and Color Edit_DMX user's manual)

Features:

1. Used as a USB to DMX512A converter, receive command from PC to realize cascade connection synchronization.
2. Run by Color_Edit.DMX software, to play Color_Edit file on real time
3. Open control protocol, support other software to control its DMX output

Off-line DMX Controller

Features:

1. 2GB memory, DMX signal output, control as many as 512 pixels
2. with USB port, store and mange files easily
3. Select file through button (LED display to show current file name), can save 99 files.
4. RS485 port, receive commands from computer or another controller
5. Sound controllable (need to connect with additional sound controller).
6. Multiply JC-3 controllers connect together to realize synchronization play, run with the same file

Lighting Dance Brick setup:

Features:

1. Setup display color
2. Setup pressure sensitive color

Note: it requires to work with UE products of JC-3 and ColorEdit_DMX

● Usage and Guides

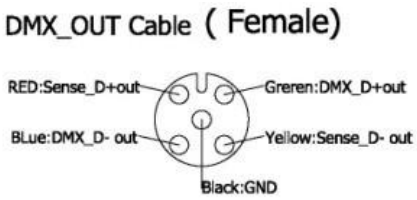
1. On-line connection:

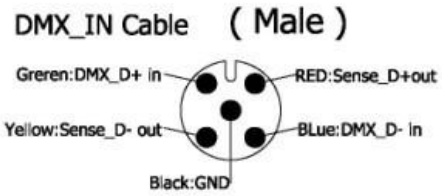
Firstly, connect the output of JC-3 controller with input connector of one JC330-3 brick (use converters), connect power supply cable with JC330-3. Then, connect the output connector of the first JC330-3 with the input connector of next JC330-3, and then connect the power cable of the first JC330-3 with the power cable of next JC330-3 brick, and so on. When connect to the last JC330-3, to avoid voltage leakage, please make sure to plug in the waterproof terminals. At last, connect the JC-3 controller with PC, click Color Edit_DMX software to edit and display program for the JC330-3 bricks, to realize cascade connection synchronization.

2. Off-line connect:

Connect JC-3 controller with PC via USB cable, copy and paste edited files (programs) into JC-3 controller. Then disconnect USB cable, connect the signal output connector of JC-3 controller with input signal connector of JC330-3 brick, connect power supply cable with JC330-3. Then, connect the output connector of the first JC330-3 with the input connector of next JC330-3, and then connect the power cable of the first JC330-3 with the power cable of next JC330-3 brick, and so on.

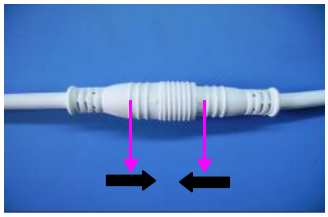
When connect to the last JC330-3, to avoid voltage leakage, please make sure to plug in the waterproof terminals. Power up JC-3 controller, and power up JC330-3 bricks, and then run programs in JC-3 controller.





Signal cable male, female

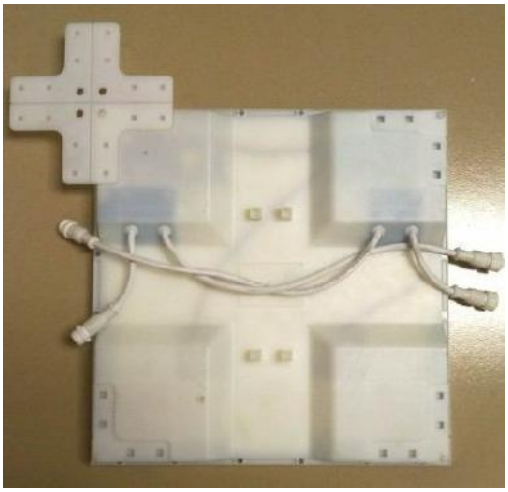
Power cable male, female

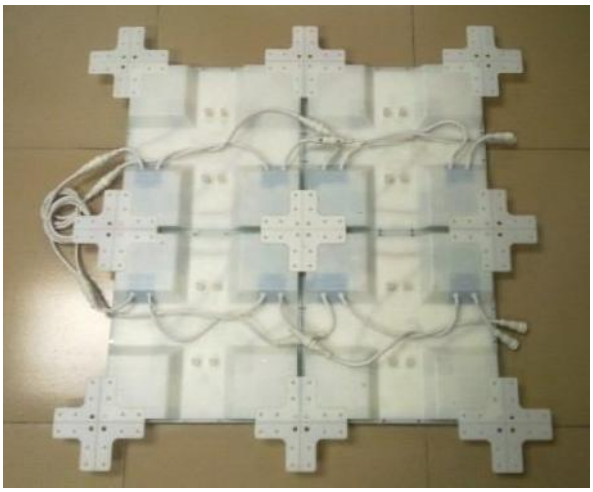


CAUTION: to connect power cables must follow above picture, the male connector must connect with its counter vise female connector, otherwise in wrong direct it will be damaged.

● Usage of installation plate and sucker

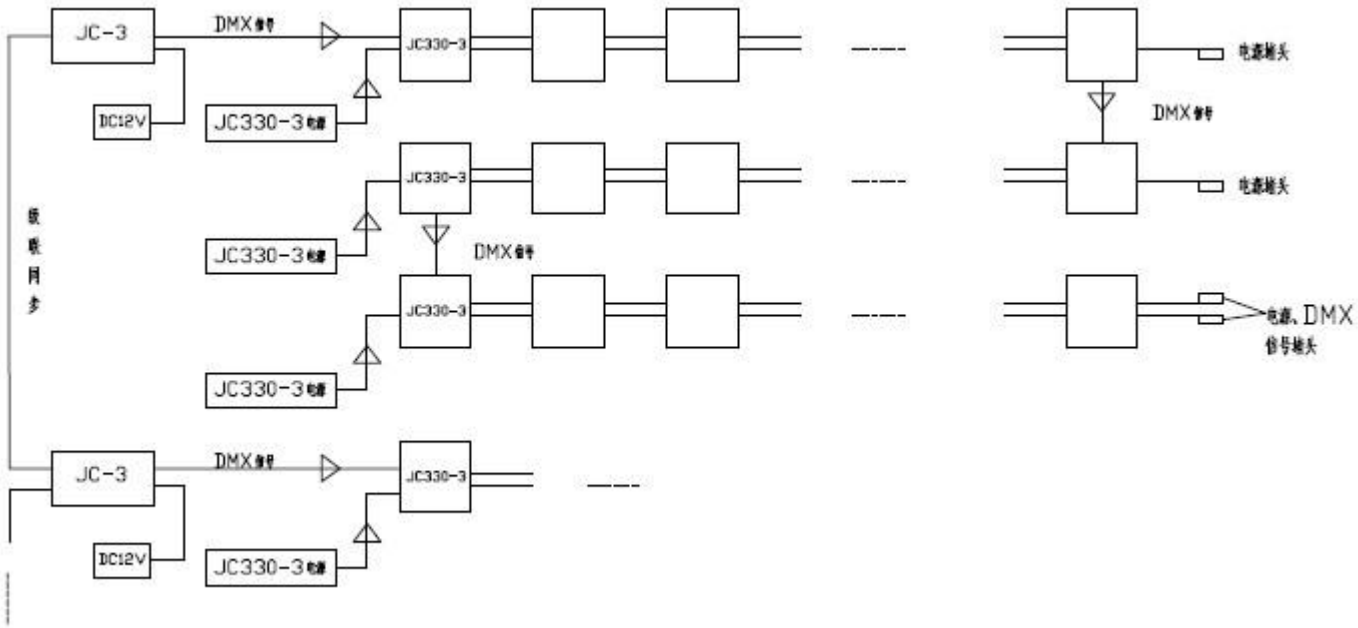
1、Insert installation plate onto JC330-3 brick one by one, see the following photos.





2、Push down the handle in the sucker, suck the sucker onto glass surface of a brick, and then pull up the handle. See below pictures.

- **Connection diagram**



NOTE ONE:

1、If JC330-3AC uses power supply of 100V~110V, each AC power cable to drive as many as 50pcs JC330-3AC's.

2、If JC330-3AC uses power supply of 220V~240V, each AC power cable to drive as many as 100pcs JC330-3AC's.

3、Every 36pcs of JC330-3AC need one AC power supply and one waterproof terminal.

4、If use AC power supply, you must use the waterproof terminal to avoid current leakage in case it is exposed to dripping or splashing or filled with liquids.

NOTE TWO:

1、When use switching power to supply JC330-3DC, please calculate the quantities of JC330-3DC to be driven under the power of 30W. (User must ensure switching power can operate properly with certain loads).

2、Use 24V switching power supply, do not use 12V switching power supply to reduce power consumption on connecting cables. To avoid switching power supply to be damaged, do not output switching power supply as parallel connection.

3、When layout JC330-3 bricks, please make the power supply cable as short as possible, and use cables of <8A/mm*mm> that can drive loads properly. If the distance is longer than 4 meters, it will increase power consumption greatly.

4、Every 9pcs of JC330-3DC needs one DC power supply.

NOTE THREE:

1、If use too many brick quantities, either JC330-3AC or JC330-3DC, for example 100pcs, please supply power in interval times. Supply power for JC330-3AC group by group, or provide switching power supply for JC330-3DC group by group , to avoid surge current that may cause circuit protection works or no power up.

2、To use alternating-current controller to do time-shared control of power supply switching on or off, and control remotely to save alternating current (AC) energy.

● Technical Specification

- Board operation temperature
  - ambient temperature: -10℃—60℃; relative humidity: 10%—90%。
- Power Supply
  - Operation voltage: JC330-3AC,AC100—240V； JC330-3DC,DC12-24V.
    - Max Power Consumption: 25W for white light;
    - Average Power Consumption (when color changes): 10W~15W
  - Waterproof grade: IP67
  - one single brick can bear pressure of 300KG
  - each brick weighs: 4.5KG